10558931x.trn

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LOGINID:SSSPTA1626GMS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAY 01	New CAS web site launched
NEWS	3	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS	4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	7	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS	8	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS	9	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS	10	JUN 29	STN Viewer now available
NEWS	11	JUN 29	STN Express, Version 8.2, now available
NEWS	12	JUL 02	LEMBASE coverage updated
NEWS	13	JUL 02	LMEDLINE coverage updated
NEWS	14	JUL 02	SCISEARCH enhanced with complete author names
NEWS	15	JUL 02	CHEMCATS accession numbers revised
NEWS	16	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS	17	JUL 16	CAplus enhanced with French and German abstracts
NEWS	18	JUL 18	CA/CAplus patent coverage enhanced
NEWS	19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	20	JUL 30	USGENE now available on STN
NEWS	21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	22	AUG 06	BEILSTEIN updated with new compounds
NEWS	23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS	25	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:17:41 ON 25 AUG 2007

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:17:52 ON 25 AUG 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 AUG 2007 HIGHEST RN 945591-52-6
DICTIONARY FILE UPDATES: 24 AUG 2007 HIGHEST RN 945591-52-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

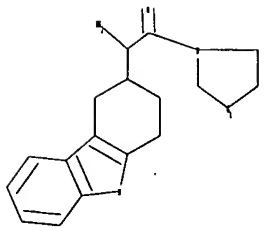
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

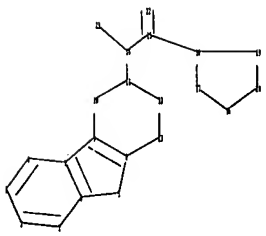
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10558931x.str





chain nodes :
14 15 22 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20
chain bonds :
11-14 14-15 14-23 15-18 15-22
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-8 5-6 6-7 7-9 8-13 8-9 9-10 10-11 11-12 12-13
16-17 16-20 17-18 18-19 19-20
exact/norm bonds :
5-8 5-6 7-9 8-13 8-9 9-10 10-11 11-12 11-14 12-13 14-15 14-23 15-18
15-22 16-17 16-20 17-18 18-19 19-20
normalized bonds :
1-2 1-6 2-3 3-4 4-7 6-7
isolated ring systems :
containing 1 : 16 :

G1:S,CH2,CH,CF2,SO2

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

```
=> d l1
L1 HAS NO ANSWERS
L1                STR
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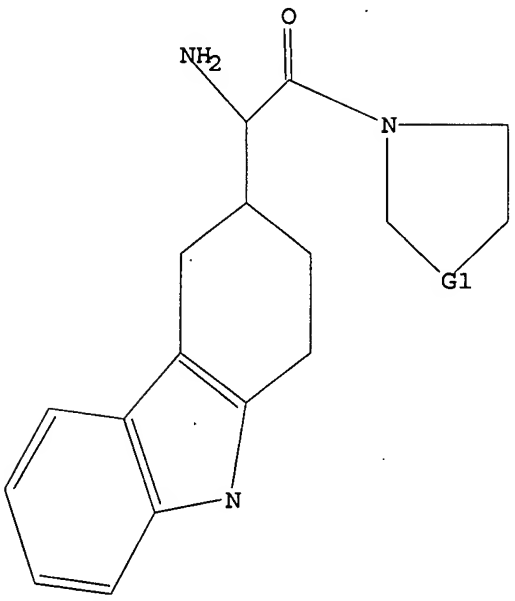


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G1 S,CH2,CH,CF2,SO2

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 17:18:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED         0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:             0 TO         0
PROJECTED ANSWERS:                0 TO         0

L2             0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 17:18:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       52 TO ITERATE

100.0% PROCESSED        52 ITERATIONS                              30 ANSWERS
SEARCH TIME: 00.00.01

L3            30 SEA SSS FUL L1

=> FIL HCAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             172.10     172.31
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10558931x.trn

FILE 'HCAPLUS' ENTERED AT 17:18:21 ON 25 AUG 2007
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FILE COVERS 1907 - 25 Aug 2007 VOL 147 ISS 10
FILE LAST UPDATED: 24 Aug 2007 (20070824/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 2 L3

=> d l4 ibib abs hitstr tot

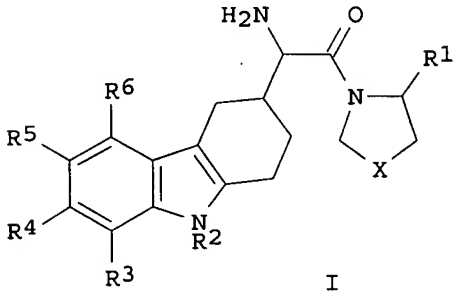
L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:1124630 HCAPLUS
DOCUMENT NUMBER: 142:56173
TITLE: Preparation of fused indoles as dipeptidyl peptidase inhibitors for the treatment or prevention of diabetes
INVENTOR(S): Edmondson, Scott D.; Mastracchio, Anthony; Parmee, Emma R.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004110436	A1	20041223	WO 2004-US17111	20040602
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004247068	A1	20041223	AU 2004-247068	20040602
CA 2526770	A1	20041223	CA 2004-2526770	20040602

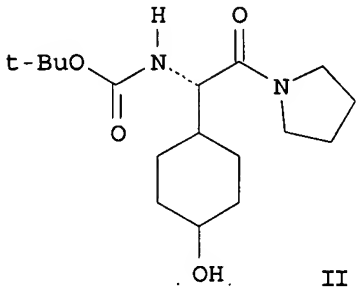
EP 1635818	A1	20060322	EP 2004-753851		20040602
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK					
CN 1798556	A	20060705	CN 2004-80015480		20040602
JP 2006527194	T	20061130	JP 2006-515036		20040602
US 2006281796	A1	20061214	US 2005-558931		20051130
PRIORITY APPLN. INFO.:			US 2003-476883P	P	20030606
			WO 2004-US17111	W	20040602

OTHER SOURCE(S): MARPAT 142:56173

GI



I



II

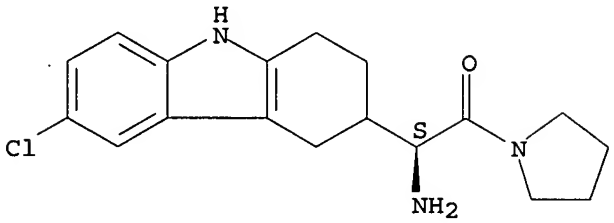
AB The authors claim the preparation of fused indoles I [R1 = H, cyano; R2 = H, C1-C6 alkyl, (CH2)n-aryl; R3, R4, R5, R6 = independently H, halo, cyano, OH, (CH2)nCO2H, (CH2)nNR7R8, etc.; R7, R8 = independently H, (CH2)nC6H4, C1-C10 alkyl, (CH2)n-C3-C6 cycloalkyl; R7R8 = nitrogen containing ring; n = 0-3; X = S, SO, SO2, CH2, CHF, CF2] and I where the carbon attached to the NH2 group has the configuration of (S). For example, reacting (S)-4-hydroxyphenylglycine with Boc2O and H2/PtO2 gavemethyl (2S)-[(tert-butoxycarbonyl)amino](4-hydroxyphenyl)ethanoate which was condensed with pyrrolidine to give the carbamate II. II was converted to the N-benzyloxycarbamate which was then reacted with various arylhydrazines to generate I. These compds. are claimed as inhibitors of the dipeptidyl peptidase-IV enzyme ('DP-IV inhibitors') which are useful in the treatment or prevention of diseases in which the dipeptidyl peptidase-IV enzyme is involved, such as diabetes and particularly type 2 diabetes. The invention is also directed to pharmaceutical compns. comprising these compds. and the use of these compds. and compns. in the prevention or treatment of such diseases in which the dipeptidyl peptidase-IV enzyme is involved.

IT 676517-05-8P 676517-07-0P 676517-09-2P
676517-11-6P 676517-13-8P 676517-15-0P
676517-17-2P 811440-53-6P 811440-54-7P
811440-55-8P 811440-56-9P 811440-57-0P
811440-58-1P 811440-59-2P 811440-60-5P
811440-61-6P 811440-62-7P 811440-63-8P
811440-64-9P 811440-65-0P 811440-66-1P
811440-67-2P 811440-68-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of fused indoles as dipeptidyl peptidase inhibitors for treating or preventing diabetes)

RN 676517-05-8 HCAPLUS

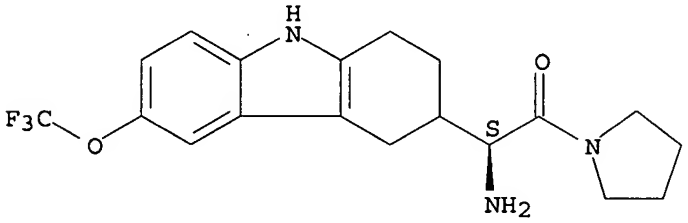
CN Pyrrolidine, 1-[(2S)-amino(6-chloro-2,3,4,9-tetrahydro-1H-carbazol-3-yl)acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



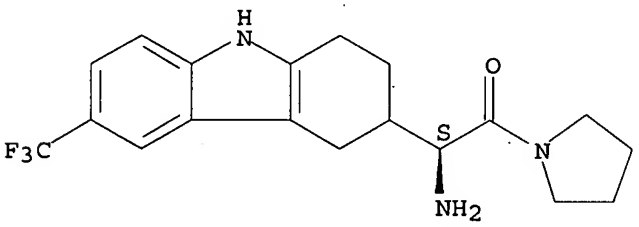
RN 676517-07-0 HCAPLUS
CN Pyrrolidine, 1-[(2S)-amino[2,3,4,9-tetrahydro-6-(trifluoromethoxy)-1H-carbazol-3-yl]acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



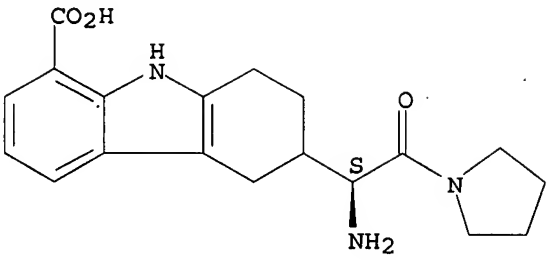
RN 676517-09-2 HCAPLUS
CN Pyrrolidine, 1-[(2S)-amino[2,3,4,9-tetrahydro-6-(trifluoromethyl)-1H-carbazol-3-yl]acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



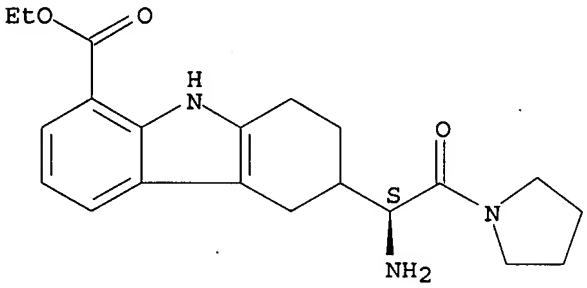
RN 676517-11-6 HCAPLUS
CN 1H-Carbazole-8-carboxylic acid, 3-[(1S)-1-amino-2-oxo-2-(1-pyrrolidinyl)ethyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



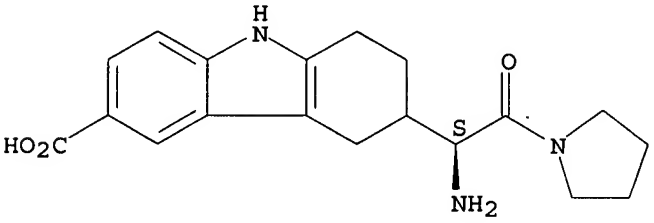
RN 676517-13-8 HCAPLUS
CN 1H-Carbazole-8-carboxylic acid, 3-[(1S)-1-amino-2-oxo-2-(1-pyrrolidinyl)ethyl]-2,3,4,9-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 676517-15-0 HCAPLUS
CN 1H-Carbazole-6-carboxylic acid, 3-[(1S)-1-amino-2-oxo-2-(1-pyrrolidinyl)ethyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 676517-17-2 HCAPLUS
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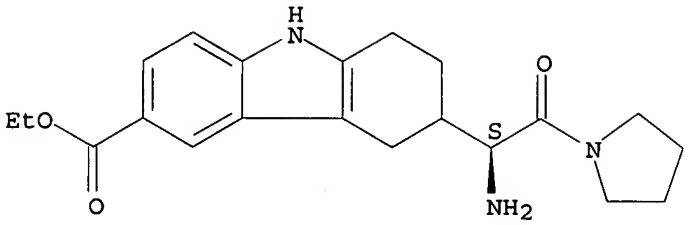
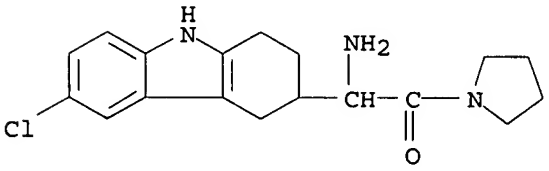
Absolute stereochemistry.



RN 811440-53-6 HCAPLUS
CN Pyrrolidine, 1-[amino(6-chloro-2,3,4,9-tetrahydro-1H-carbazol-3-yl)acetyl]- (9CI) (CA INDEX NAME)



RN 811440-54-7 HCAPLUS
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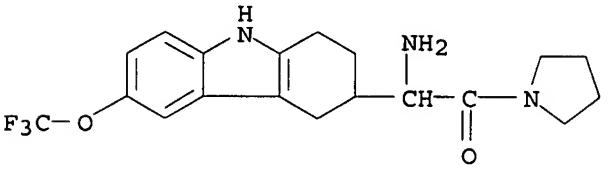

RN 811440-55-8 HCAPLUS
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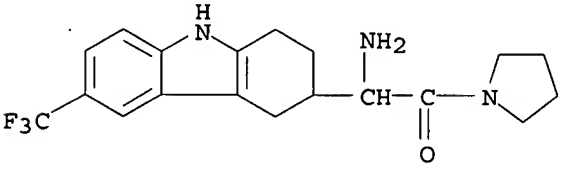

RN 811440-56-9 HCAPLUS
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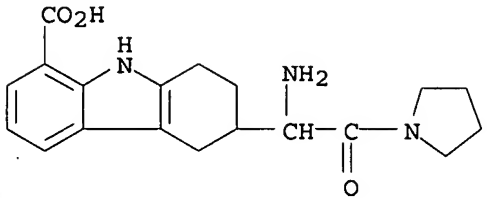

RN 811440-57-0 HCAPLUS
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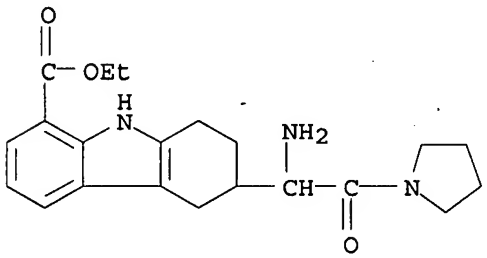

RN 811440-58-1 HCAPLUS
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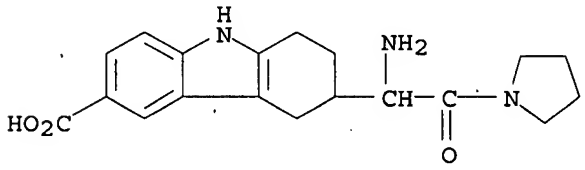

RN 811440-59-2 HCAPLUS
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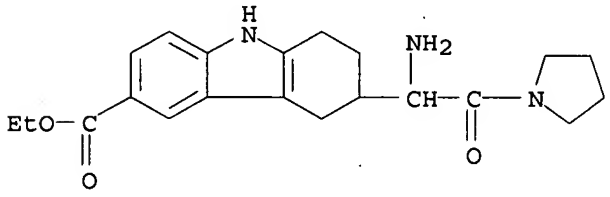

RN 811440-60-5 HCAPLUS
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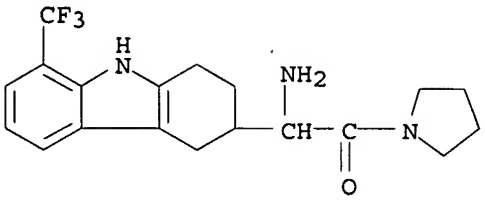

RN 811440-61-6 HCAPLUS
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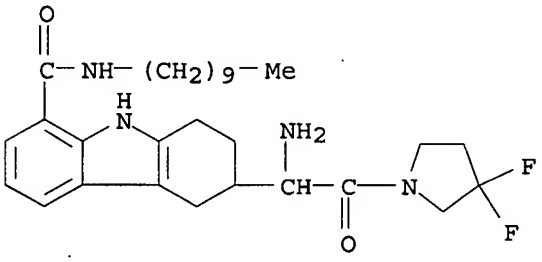

RN 811440-62-7 HCAPLUS
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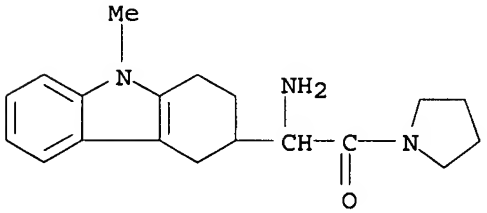

RN 811440-63-8 HCAPLUS
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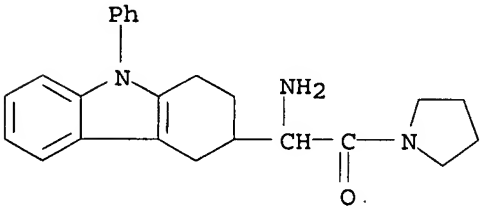
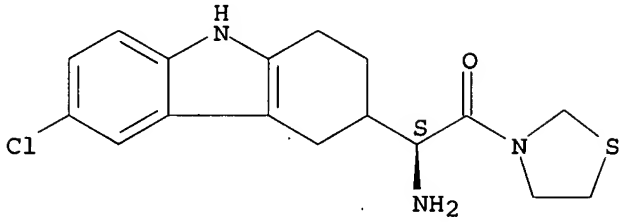


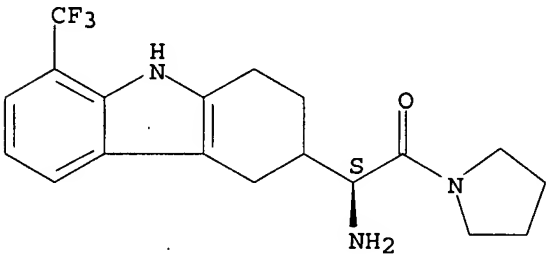
RN 811440-64-9 HCAPLUS
CN Thiazolidine, 3-[(2S)-amino(6-chloro-2,3,4,9-tetrahydro-1H-carbazol-3-yl)acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



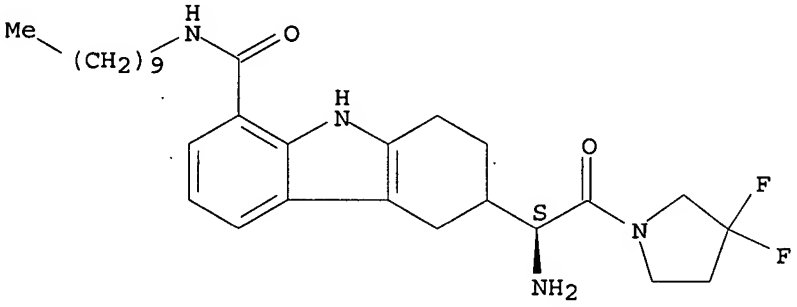
RN 811440-65-0 HCAPLUS
CN Pyrrolidine, 1-[(2S)-amino[2,3,4,9-tetrahydro-8-(trifluoromethyl)-1H-carbazol-3-yl]acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



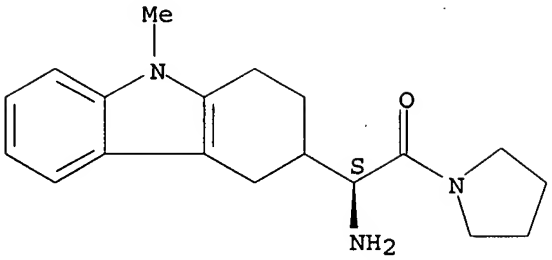
RN 811440-66-1 HCAPLUS
CN 1H-Carbazole-8-carboxamide, 3-[(1S)-1-amino-2-(3,3-difluoro-1-pyrrolidinyl)-2-oxoethyl]-N-decyl-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



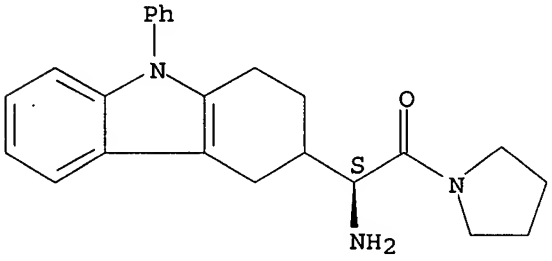
RN 811440-67-2 HCAPLUS
CN Pyrrolidine, 1-[(2S)-amino(2,3,4,9-tetrahydro-9-methyl-1H-carbazol-3-yl)acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



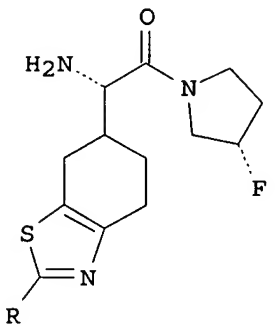
RN 811440-68-3 HCAPLUS
CN Pyrrolidine, 1-[(2S)-amino(2,3,4,9-tetrahydro-9-phenyl-1H-carbazol-3-yl)acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:15219 HCAPLUS
DOCUMENT NUMBER: 140:304042
TITLE: Heterocycle fused cyclohexylglycine derivatives as novel dipeptidyl peptidase-IV inhibitors
AUTHOR(S): Mastracchio, Anthony; Parmee, Emma R.; Leiting, Barbara; Marsilio, Frank; Patel, Reshma; Thornberry, Nancy A.; Weber, Ann E.; Edmondson, Scott D.
CORPORATE SOURCE: Merck Research Laboratories, Merck and Co., Inc., Rahway, NJ, 07065, USA
SOURCE: Heterocycles (2004), 62, 203-206
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:304042
GI



I

AB A new class of potent inhibitors of dipeptidyl peptidase IV (DP-IV) for the treatment of type II diabetes are described. The syntheses of indole- and thiazole-fused cyclohexylglycines are presented. Pyrrolidine-derived amides of these novel heterocycles led to the discovery of thiazole derivs. I.TFA [R = 4-CF3C6H4 or 3,4-CF3(F)C6H3CONH], both low nanomolar inhibitors of DP-IV (IC50 = 6 nM).

IT 676517-06-9P 676517-08-1P 676517-10-5P
676517-12-7P 676517-14-9P 676517-16-1P
676517-18-3P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(heterocycle-fused cyclohexylglycine derivs. as novel dipeptidyl peptidase-IV inhibitors)

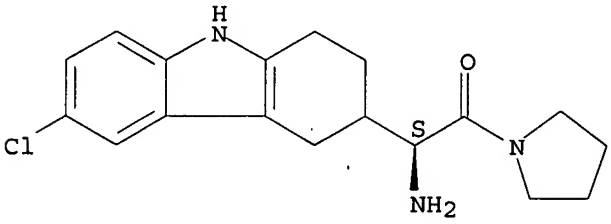
RN 676517-06-9 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(6-chloro-2,3,4,9-tetrahydro-1H-carbazol-3-yl)acetyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

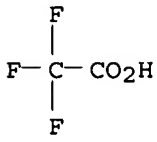
CRN 676517-05-8
CMF C18 H22 Cl N3 O

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

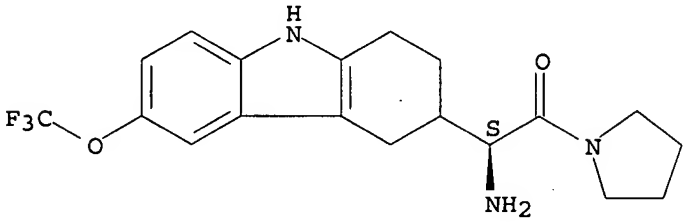


RN 676517-08-1 HCAPLUS
CN Pyrrolidine, 1-[(2S)-amino[2,3,4,9-tetrahydro-6-(trifluoromethoxy)-1H-carbazol-3-yl]acetyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

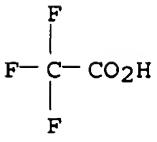
CRN 676517-07-0
CMF C19 H22 F3 N3 O2

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

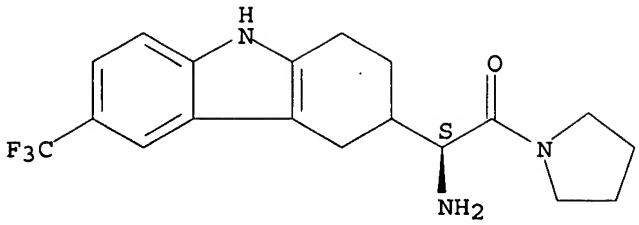


RN 676517-10-5 HCAPLUS
CN Pyrrolidine, 1-[(2S)-amino[2,3,4,9-tetrahydro-6-(trifluoromethyl)-1H-carbazol-3-yl]acetyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

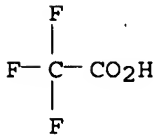
CRN 676517-09-2
CMF C19 H22 F3 N3 O

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

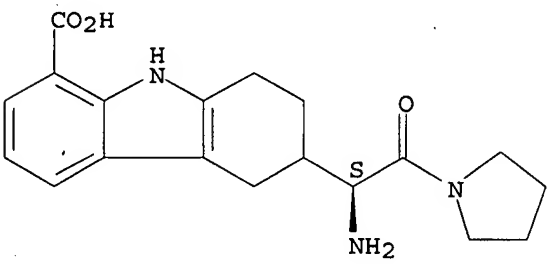


RN 676517-12-7 HCAPLUS
CN 1H-Carbazole-8-carboxylic acid, 3-[(1S)-1-amino-2-oxo-2-(1-pyrrolidinyl)ethyl]-2,3,4,9-tetrahydro-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

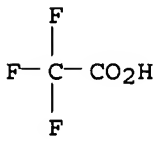
CRN 676517-11-6
CMF C19 H23 N3 O3

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

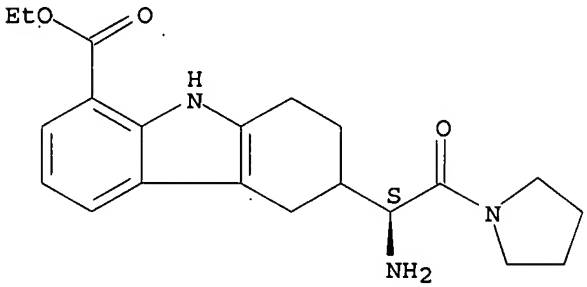


RN 676517-14-9 HCAPLUS
CN 1H-Carbazole-8-carboxylic acid, 3-[(1S)-1-amino-2-oxo-2-(1-pyrrolidinyl)ethyl]-2,3,4,9-tetrahydro-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

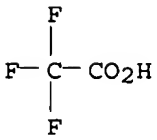
CRN 676517-13-8
CMF C21 H27 N3 O3

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

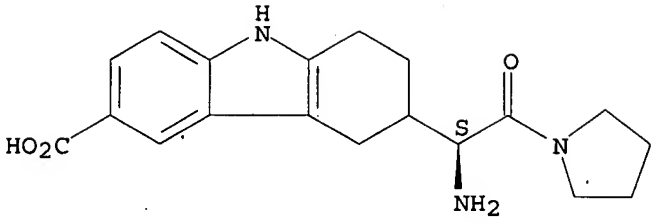


RN 676517-16-1 HCAPLUS
CN 1H-Carbazole-6-carboxylic acid, 3-[(1S)-1-amino-2-oxo-2-(1-pyrrolidinyl)ethyl]-2,3,4,9-tetrahydro-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 676517-15-0
CMF C19 H23 N3 O3

Absolute stereochemistry.



CM 2

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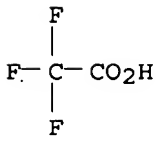
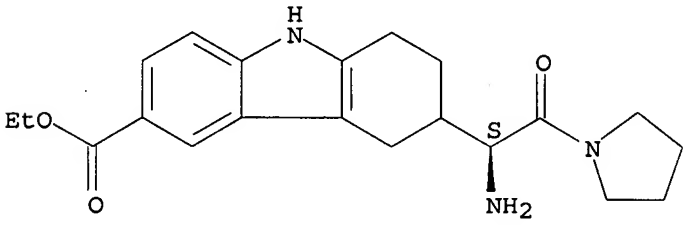


RN 676517-18-3 HCAPLUS
CN 1H-Carbazole-6-carboxylic acid, 3-[(1S)-1-amino-2-oxo-2-(1-pyrrolidinyl)ethyl]-2,3,4,9-tetrahydro-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

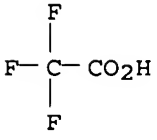
CRN 676517-17-2
CMF C21 H27 N3 O3

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	18.34	190.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

FILE 'REGISTRY' ENTERED AT 17:19:53 ON 25 AUG 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 AUG 2007 HIGHEST RN 945591-52-6
DICTIONARY FILE UPDATES: 24 AUG 2007 HIGHEST RN 945591-52-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

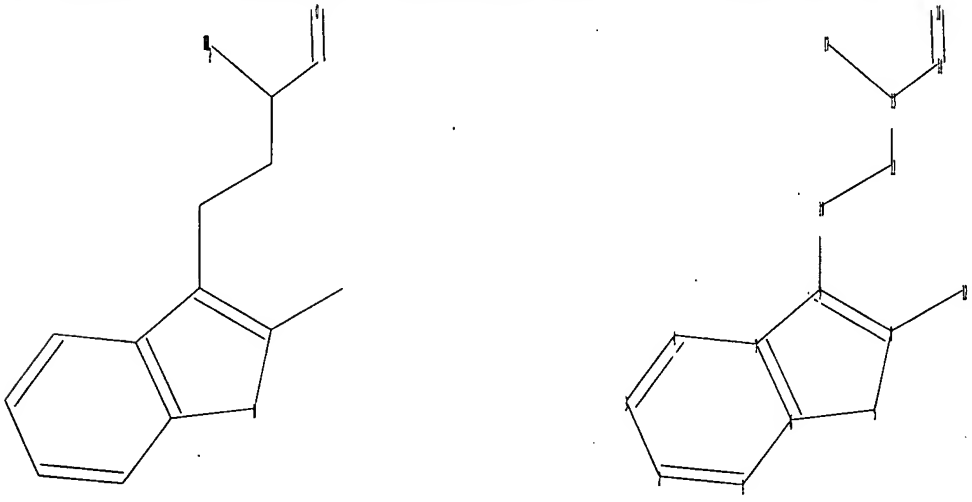
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10558931y.str



10558931x.trn

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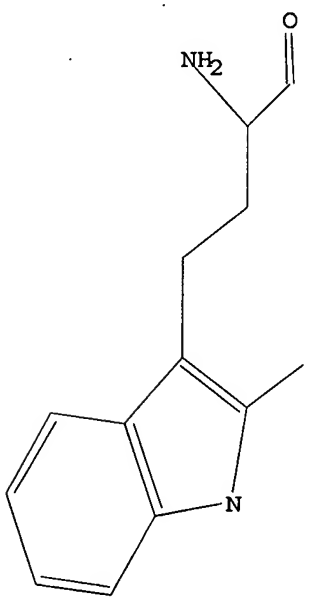
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
8-12 9-10 10-11 11-13 13-14 13-17 14-16
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-8 5-6 6-7 7-9 8-9
exact/norm bonds :
5-8 5-6 13-17 14-16
exact bonds :
7-9 8-12 8-9 9-10 10-11 11-13 13-14
normalized bonds :
1-2 1-6 2-3 3-4 4-7 6-7
isolated ring systems :
containing 1 :

G1:S,CH2,CH,CF2,SO2

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:CLASS

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



G1 S,CH2,CH,CF2,SO2

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -       44 TO ITERATE

100.0% PROCESSED       44 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          483 TO     1277
PROJECTED ANSWERS:               0 TO        0

L6             0 SEA SSS SAM L5

=> s l5 sss full
FULL SEARCH INITIATED 17:20:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      667 TO ITERATE

100.0% PROCESSED      667 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L7             0 SEA SSS FUL L5

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Uploading C:\Program Files\Stnexp\Queries\10558931z.str
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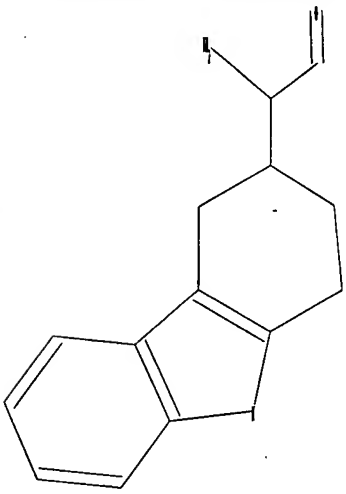

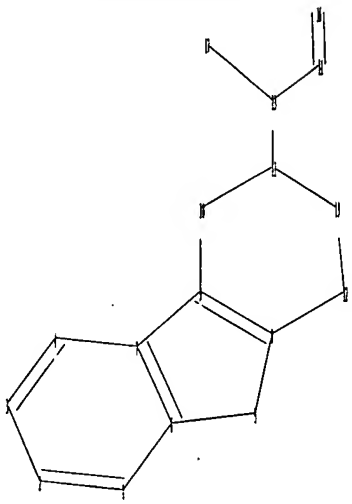

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ring nodes :
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ring bonds :
1-2  1-6  2-3  3-4  4-7  5-8  5-6  6-7  7-9  8-12  8-9  9-10  10-11  11-19  12-19
exact/norm bonds :
5-8  5-6  13-17  14-16
exact bonds :
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normalized bonds :
1-2  1-6  2-3  3-4  4-7  6-7
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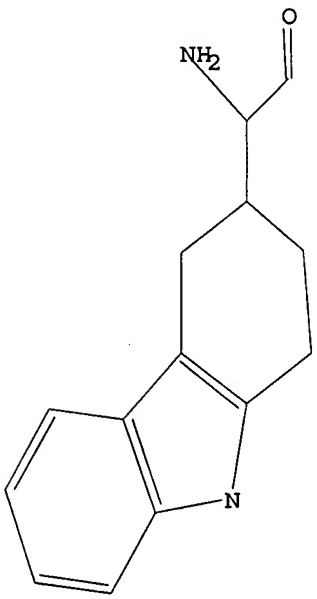
isolated ring systems :
containing 1 :

G1:S,CH2,CH,CF2,SO2

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:CLASS 19:Atom

L8 STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8 STR



G1 S,CH2,CH,CF2,SO2

Structure attributes must be viewed using STN Express query preparation.

=> s l8
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SAMPLE SCREEN SEARCH COMPLETED - 52 TO ITERATE

100.0% PROCESSED 52 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 608 TO 1472
PROJECTED ANSWERS: 0 TO 0

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L9              0 SEA SSS SAM L8

=> s l8 sss full
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100.0% PROCESSED     1032 ITERATIONS                                30 ANSWERS
SEARCH TIME: 00.00.01

L10             30 SEA SSS FUL L8

=> FIL HCAPLUS
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   344.65     535.30

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -1.56

FILE 'HCAPLUS' ENTERED AT 17:21:56 ON 25 AUG 2007
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FILE COVERS 1907 - 25 Aug 2007  VOL 147 ISS 10
FILE LAST UPDATED: 24 Aug 2007  (20070824/ED)

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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l10
L11             2 L10

=> d l11 ibib abs tot

L11  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2004:1124630  HCAPLUS
DOCUMENT NUMBER:          142:56173
TITLE:                    Preparation of fused indoles as dipeptidyl peptidase
                          inhibitors for the treatment or prevention of diabetes
INVENTOR(S):              Edmondson, Scott D.; Mastracchio, Anthony; Parmee,
                          Emma R.
PATENT ASSIGNEE(S):       Merck & Co., Inc., USA
SOURCE:                   PCT Int. Appl., 39 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
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LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004110436	A1	20041223	WO 2004-US17111	20040602
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004247068	A1	20041223	AU 2004-247068	20040602
CA 2526770	A1	20041223	CA 2004-2526770	20040602
EP 1635818	A1	20060322	EP 2004-753851	20040602
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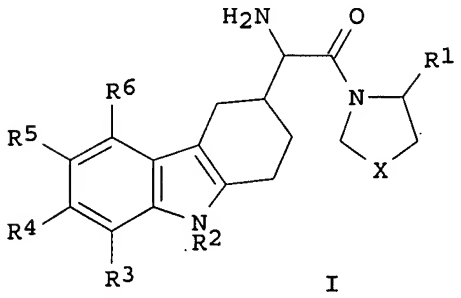
CN 1798556	A	20060705	CN 2004-80015480	20040602
JP 2006527194	T	20061130	JP 2006-515036	20040602
US 2006281796	A1	20061214	US 2005-558931	20051130
PRIORITY APPLN. INFO.:			US 2003-476883P P	20030606
			WO 2004-US17111 W	20040602

OTHER SOURCE(S): MARPAT 142:56173
GI



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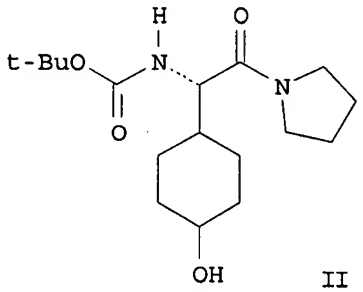

II

AB The authors claim the preparation of fused indoles I [R1 = H, cyano; R2 = H, C1-C6 alkyl, (CH2)n-aryl; R3, R4, R5, R6 = independently H, halo, cyano, OH, (CH2)nCO2H, (CH2)nNR7R8, etc.; R7, R8 = independently H, (CH2)nC6H4, C1-C10 alkyl, (CH2)n-C3-C6 cycloalkyl; R7R8 = nitrogen containing ring; n = 0-3; X = S, SO, SO2, CH2, CHF, CF2] and I where the carbon attached to the NH2 group has the configuration of (S). For example, reacting (S)-4-hydroxyphenylglycine with Boc2O and H2/PtO2 gavemethyl (2S)-[(tert-butoxycarbonyl)amino](4-hydroxyphenyl)ethanoate which was condensed with pyrrolidine to give the carbamate II. II was converted to the N-benzyloxycarbamate which was then reacted with various arylhydrazines to generate I. These compds. are claimed as inhibitors of the dipeptidyl peptidase-IV enzyme ('DP-IV inhibitors') which are useful in the treatment or prevention of diseases in which the dipeptidyl peptidase-IV enzyme is involved, such as diabetes and particularly type 2

diabetes. The invention is also directed to pharmaceutical compns. comprising these compds. and the use of these compds. and compns. in the prevention or treatment of such diseases in which the dipeptidyl peptidase-IV enzyme is involved.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:15219 HCAPLUS
DOCUMENT NUMBER: 140:304042
TITLE: Heterocycle fused cyclohexylglycine derivatives as novel dipeptidyl peptidase-IV inhibitors
AUTHOR(S): Mastracchio, Anthony; Parmee, Emma R.; Leiting, Barbara; Marsilio, Frank; Patel, Reshma; Thornberry, Nancy A.; Weber, Ann E.; Edmondson, Scott D.
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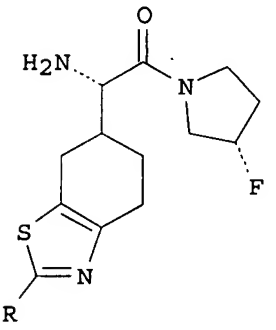
GI



I

AB A new class of potent inhibitors of dipeptidyl peptidase IV (DP-IV) for the treatment of type II diabetes are described. The syntheses of indole- and thiazole-fused cyclohexylglycines are presented. Pyrrolidine-derived amides of these novel heterocycles led to the discovery of thiazole derivs. I.TFA [R = 4-CF3C6H4 or 3,4-CF3(F)C6H3CONH], both low nanomolar inhibitors of DP-IV (IC50 = 6 nM).

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.06	551.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE -1.56 -3.12

STN INTERNATIONAL LOGOFF AT 17:24:04 ON 25 AUG 2007